



Visibly Better. With The New Shape Of Studio Automation.

CSS-2000-N/P

ParkerVision, the camera tracking and automation experts, introduce
CameraManSTUDIO™, the first fully integrated studio automation system to give one person control over Multiple
CameraMan Cameras, Digital Video Effects, Digital Audio Mixing, VCR control,
Teleprompter, Character Generation and Transition Macros™ — all from one
Graphical User Interface.

CameraManSTUDIO allows directors to manage and control a multi-camera studio environment with limited resources. The powerful Transition Macro feature allows directors to spend their pre-production time inventing new shots, then performing them with the touch of a button.

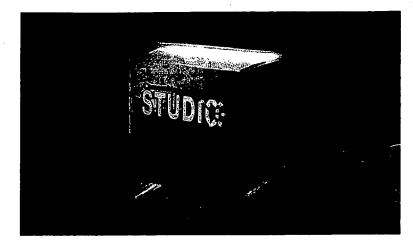
CameraManSTUDIO's revolutionary studio automation capabilities adds creativity and value to:

- · Independent Studios both large and small
- Corporate Production Studios
- Health Care Production Studios
- Government Production Studios
- Education Production Studios
- · Religious Broadcast and Studio Productions
- · Small Cable and Public Broadcast Networks
- · Law Enforcement Production Studios

The integrated CameraMan camera systems also incorporate all of ParkerVision's exclusive camera-control technology with features such as autoTRACK™, Location Presets, and WhisperDRIVE Plus™.

## **System Features**

- Common graphical user interface for live video production including camera control, video switching and special effects, audio mixing, titling, and VCR control.
- Transition Macros used to store complex production sequences, then recall them with the click of the mouse.
- Save and recall complete studio configurations.



### Camera Control Features

- · Real-time digital camera control.
- Store and recall 125 location presets (pan, tilt, zoom, focus and image settings) per camera.
- Adjust all camera parameters including gain, paint, master pedestal, etc.
- On-screen HOT Keys to quickly store and recall autoTRACK Views™ and Location Presets.
- Virtual joystick pan and tilt gives you realtime control over each camera's movement.
- Variable speed controls for zoom, pan, tilt and presets.
- · Store and recall camera shot profiles.

## **Studio System Features**

- NTSC or PAL for use around the world.
- · Digital video effects unit.
- 8 bit 4:2:2 processing

- SHOT Profiler™
- · Transition Macros.
- · Digital audio mixer
- · External machine control
- 8 video inputs (4 Y/C and 4 component).
- 8 audio inputs.

### **Options**

- · Enhanced effects and chroma-keying.
- · Character Generator
- CameraMan SHOT Director™ for hands-on camera control.
- CameraMan SCRIPT Viewer™ for interactive teleprompter applications.
- · Y/C and component expandable.
- 1-CCD and 3-CCD CameraMan cameras.

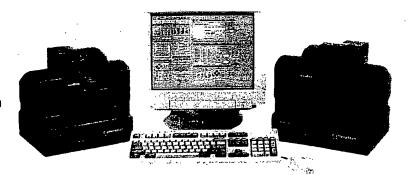
# Why CameraManSTUDIO?

For these features available only from ParkerVision:

- Communication and studio directors can maximize their talents through the use of CameraMan's proprietary autoTRACK™ technology. With automated presenter "tracking", the director can focus efforts on other camera views and shot selections.
- All studio functions are centralized and controlled from the CameraManSTUDIO.
- CameraManSTUDIO provides real-time camera control
- 17° Color Monitor, mouse and keyboard provide maximum control flexibility and ease-of-operation.
- Quality audio and video output for satellite, cable, public-switched networks, microwave transmission – or for CD-ROM, videotape, and digital storage.

For more information, or a product demonstration, contact us at:

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# Visibly Better. With The New Shape Of Studio Automation.

### **Video Effects:**

Wipe Generator . . . . . Vertical, horizontal, corner, diagonal, split, box, diamond, clock, and arrow.

Border size, rotation, softness, and color control.

DVE Wipes . . . . . Arbitrary transitions, scaled, rotated, and modulated by

the DVE.

Mixing . . . . . . A/B wipe/mix, DVE wipe on/off, Fade-to-black Input effects . . . . . Pixellation, solarization, posterization

Color correction

Rectangular border and crop with softness control

· Full color internal pattern generator

Still store

Digital Effects . . . . . . • Dual source page turns/rolls, double page turns/rolls.

Dual source page peets, and quad peets.

· Dual source sphere, cinema, discs, goblets.

· Dual source push on/push off.

· Dual source twisty splits and corner pins.

· Quad split, multi-tile, and ripple and flag wave effects.

· 3D rotation with perspective.

Dual light sources with high-lights and low-lights.

Drop shadow.

· Front/back source selection.

· 1/16th pixel store resolution.

# **Optional Video Effects:**

Background Source. . . . . . 3rd live input source for use as background.

Trail Store Effects . . . . . . Drop shadow, arbitrary position, color and transparency

· Video drop-field/frame trozen into memory.

• Video trail

· Video, key texturing

Video, key decay

· Video, key Sparkle

 Independent delay control for video decay, key decay, video sparkle and key sparkle.

Trail modulation

Wipes . . . . . . . . . . . . 100 additional wipe patterns including circle, heart,

matrix, and random matrix.

Keyer......Two fully independently controllable chroma keyers,

DVE and DSK.

# **Video Inputs and Outputs:**

Video Inputs . . . . . . . . 8 composite, 4 Y/C, 4 component

Format ...... NTSC, PAL

Signai . . . . . . . . . Composite: BNC, 75 Ohm, 1Vpp.

Y/C: 4-pin mini DIN,75 Ohm, Y: 1Vpp, C: .3Vpp.

Y, Pb, Pr: BNC, 75 Ohm, .7Vpp.

BNC

Reference input . . . . . . Black Burst .3Vpp burst, .3Vpp sync.

2 x BNC, 75 Ohm, loop-through.

Video Outputs . . . . . . . Program: 2 Composite: BNC, 75 Ohm, 1Vpp.

2 Y/C: 4-pin mini DIN, 75 Ohm, Y: 1Vpp, C: 0.3Vpp. 2 Analog Component: BNC, 75 Ohm, 7Vpp.

Preview: RGB or Analog Component BNC, 75 Ohms

./Урр.

Reference Output...... Black Burst

4x 8NC, 75 Ohms, 1Vpp.

### **Video Signal Performance:**

Standards ... NTSC, PAL
Processing ... 8-bit 4:2:2
Luma sampting ... 13.5 MHz
PbPr sampling ... 6.75 MHz

Synchronization . . . . . . Dual input frame synchronizers. Frequency Response . . . . Luma(Y): +0.5/-1dB to 5.5MHz

Pb Pr: +0.5/-1dB to 2.75MHz Differential gain: less than 2% Differential phase: less than 2°

Y-C delay: 20ns

Signal-Noise Ratio . . . . . Y, Pb, Pr. input: -56dB (unweighted, bandlimited)

Composite input: -53dB (unweighted, bandlimited)

## **Audio Inputs and Outputs:**

Audio Inputs . . . . . . . 8

Audio Outputs . . . . . . 8,

## **Audio Signal Performance:**

frequency

Response . . . . . . . . 20Hz-20kHz, +0/-0.25 dB, fs=48kHz

Resolution . . . . . . . 16-bits

Converters . . . . . . . Input: Dual 16-bit delta-sigma A/D converter, 64x

oversampling.

Output: Dual 16-bit delta-sigma D/A converter, 8x

oversampling.

### **VCR Control**:

## **Standard System Configurations**

CSS-2000-N/P ..... Signal Processor, Control Processor, keyboard, mouse, 17

color monitor.

## **Optional Equipment**

CPT-2000-A1N/A1P General pan/tilt camera (1-CCD)

CPC-2000-A1N/A1P . . Presenter camera (1-CCD)

CPT-2013-A3N/A3P . . General pan/tilt camera (3-CCD, 13x lens)

CPC-2013-A3N/A3P . Presenter camera (3-CCD, 13x lens)

CPT-2017-A3N/A3P . . General pan/tilt camera (3-CCD, 17x lens)

CPC-2017-A3N/A3P ... Presenter camera (3-CCD, 17x lens)

EPF-2000 ............ Full signal Video Expansion Processor. Expands to a total of 8

Composite, Y/C, or component video inputs.

EPY-2000 . . . . . . . Y/C Video Expansion Processor. Expands to a total of 8 Y/C

video inputs.

EPA-2000 ...... Audio Expansion Processor. Expands to a total of 8 audio inputs.

EPV-2000 . . . . . . . . VCR Expansion Processor. Adds an additional 3 VCR control ports.

CRT-2021 ...........21" Computer Monitor

JSC-2000 ..........CarneraMan SHOT Director (non-tracking)

SVS-2010 . . . . . . . SCRIPTviewer system including processor with scripting

software, 15" color monitor, keyboard, mouse, 10" flat

panel display, mounting brackets.

software, 15° color monitor, keyboard, mouse, 12° flat

panel display, mounting brackets.

# **Additional ParkerVision Studio Products**



The CameraMan SCRIPT Viewer™ is an interactive teleprompting system controlled via on-screen software, or by the talent with wireless remote control.



The CameraMan CONTROL Center is the ultimate camera controller, allowing one person to manipulate up to 64 cameras from one location. It is fully upgradeable to a CameraManSTUDIO.



The CameraMan SHOT Director™ allows hands on control of up to 16 cameras from one location.

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